

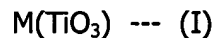
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claim 1. (canceled).

Claim 2. (previously presented): A sol comprising dispersed perovskite titanium-containing composite oxide particle having a composition represented by general formula (I), wherein the specific surface area is about 10 to about 200 m²/g, the specific surface area diameter D_1 of primary particles defined by formula (II) is about 10 to about 100 nm, and a D_2/D_1 ratio of the average particle size D_2 of secondary particles to D_1 is about 1 to about 10:

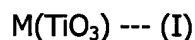


wherein M is at least one of Ca, Sr, Ba, Pb, or Mg and

$$D_1 = 6/\rho S \text{ --- (II)}$$

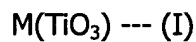
wherein ρ is the density of the particles, and S is the specific surface area of the particles.

Claim 3. (previously presented): A process for producing a sol in which a perovskite titanium-containing composite oxide particle represented by general formula (I) is dispersed, comprising the step of allowing a titanium oxide particle comprising a brookite crystalline form to react with a metal salt comprising at least one of Ca, Sr, Ba, Pb, or Mg in a liquid phase:



wherein M is at least one of Ca, Sr, Ba, Pb, or Mg.

Claim 4. (previously presented): A process for producing a sol in which a perovskite titanium-containing composite oxide particle represented by general formula (I) is dispersed, comprising the step of allowing a titanium oxide sol prepared by subjecting a titanate to hydrolysis in an acid solution to react with a metal salt comprising at least one of Ca, Sr, Ba, Pb, or Mg in a liquid phase:



wherein M is at least one of Ca, Sr, Ba, Pb, or Mg.

Claim 5. (previously presented): A sol obtained by said production process as claimed in claim 3.

Claim 6. (canceled).

Claim 7. (previously presented): The production process of said sol as claimed in claim 3, wherein said liquid phase is alkaline.

Claims 8-16. (canceled).

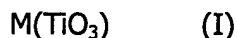
Claim 17. (previously presented): A sol obtained by said production process as claimed in claim 4.

Claim 18. (previously presented): The production process of said sol as claimed in claim 4, wherein said liquid phase is alkaline.

Claim 19. (previously presented): The sol as claimed in claim 2, wherein the specific surface area of the perovskite titanium-containing composite oxide particle is 28 to about 200 m²/g.

Claim 20. (previously presented): The sol as claimed in claim 2, wherein the diameter D₁ of primary particles defined by formula (II) is about 10 to 50 nm.

Claim 21. (new): A dielectric material comprising perovskite titanium-containing composite oxide particle having a composition represented by general formula (I), wherein the specific surface area is about 10 to about 200 m²/g, the specific surface area diameter D₁ of primary particles defined by formula (II) is about 10 to about 100 nm, and a D₂/D₁ ratio of the average particle size D₂ of secondary particles to D₁ is about 1 to about 10:

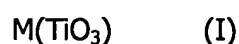


wherein M is at least one of Ca, Sr, Ba, Pb, or Mg and

$$D_1 = 6/\rho S \quad (\text{II})$$

wherein ρ is the density of the particles, and S is the specific surface area of the particles.

Claim 22. (new): A piezoelectric material comprising perovskite titanium-coating composite oxide particle having a composition represented by general formula (I), wherein the specific surface area is about 10 to about 200 m²/g, the specific surface area diameter D₁ of primary particles defined by formula (II) is about 10 to about 100 nm, and a D₂/D₁ ratio of the average particle size D₂ of secondary particles to D₁ is about 1 to about 10:

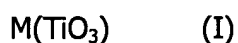


wherein M is at least one of Ca, Sr, Ba, Pb, or Mg and

$$D_1 = 6/\rho S \quad (\text{II})$$

wherein ρ is the density of the particles, and S is the specific surface area of the particles.

Claim 23. (new): A memory comprising perovskite titanium-containing composite oxide particle having a composition represented by general formula (I), wherein the specific surface area is about 10 to about 200 m²/g, the specific surface area diameter D₁ of primary particles defined by formula (II) is about 10 to about 100 nm, and a D₂/D₁ ratio of the average particle size D₂ of secondary particles to D₁ is about 1 to about 10:

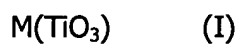


wherein M is at least one of Ca, Sr, Ba, Pb, or Mg and

$$D_1 = 6/\rho S \quad (\text{II})$$

wherein ρ is the density of the particles, and S is the specific surface area of the particles.

Claim 24. (new): A photocatalyst comprising perovskite titanium-containing composite oxide particle having a composition represented by general formula (I), wherein the specific surface area is about 10 to about 200 m²/g, the specific surface area diameter D₁ of primary particles defined by formula (II) is about 10 to about 100 nm, and a D₂/D₁ ratio of the average particle size D₂ of secondary particles to D₁ is about 1 to about 10:



wherein M is at least one of Ca, Sr, Ba, Pb, or Mg and

$$D_1 = 6/\rho S \quad (\text{II})$$

wherein ρ is the density of the particles, and S is the specific surface area of the particles.